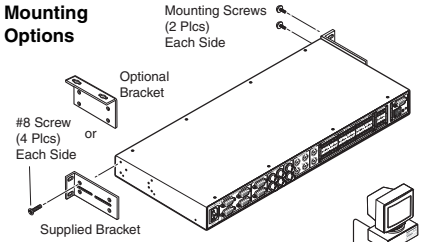
MPX 423 A Matrix Switcher

Description

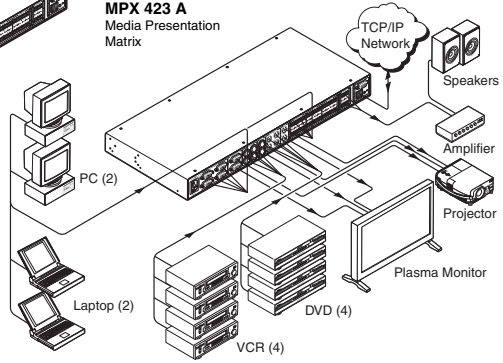
The Extron MPX 423 A is a unique multi-switcher that combines three independent 4x2 mini matrix switchers and a 12x2 stereo audio matrix. This multi-switcher routes VGA, composite video, S-video, and associated audio signals to one or two outputs of the same signal type. The MPX 423 A has 15-pin HD input connectors for computer signals, BNC input connectors for composite video and 4-pin mini DIN input connectors for S-video. Audio uses 5-pole, 3.5 mm captive-screw connectors and features balanced and unbalanced wiring.

Installation and Cabling

Mounting Options



Application Diagram



1. Turn off power to the switcher and all other devices that will be connected.
2. If the switcher is to be rack or table/wall mounted, position the brackets and insert the mounting screws.

See the mounting diagram above.

3. Attach up to 12 VGA, S-video, or Composite Video input devices (up to four of each type) to the switcher.
4. Connect up to six VGA, S-video, and Composite Video outputs (up to two of each type) to the input of each output device.
5. For audio input, connect up to 12 audio sources to audio inputs of the VGA, S-video, or Composite Video groups (up to four for each group). Refer to *Audio Connections* for wiring diagrams.
6. For balanced and unbalanced audio output, connect an audio output device to both of the outputs. Refer to *Audio Connections* for wiring diagrams.
7. If the switcher is to be connected to a computer or host controller for remote control, connect the host's RS-232 cable to the 9-pin female RS-232 connector of the switcher. For an RS-232 pinout table, refer to the *Remote Control Port (RS-232)* section in Appendix A of the manual.
8. If the switcher is to be connected to a LAN, plug an RJ-45 jack into the back panel LAN port to connect the unit to a computer network. The default IP address for the MPX 423 A is **192.168.254.254**.
9. Power up the input and output devices, then connect power to the switcher's rear AC connector.

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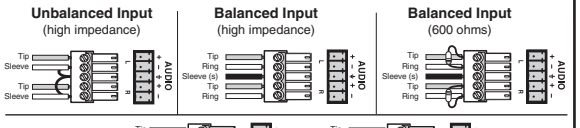
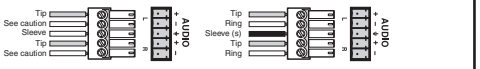
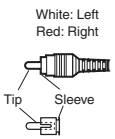
Audio Connections

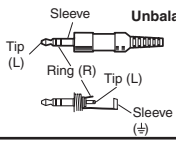
Audio connections are made to and from the switcher using 5-pole, 3.5 mm captive-screw connectors. Three methods of wiring the audio connectors for input and for output are shown in the examples at right.

Use the diagrams to the right when making connections for the switcher from existing audio cables. The left and center figures below show the round audio connectors for unbalanced audio and the captive screw on the right shows balanced audio.







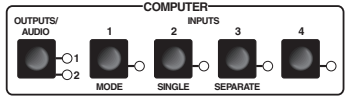


⚠ NO sleeve means NO CONNECTION. Wiring errors or plugging the audio connectors incorrectly can damage the audio output circuits.

Front Panel Operations

Making a tie

1. Press the I/O button to select a video-only, audio-only or audio/video mode.
2. Select the output using any of the output buttons.
3. Select the input from any of the 12 inputs.



Reading the LEDs

In audio/video I/O mode:

- a lit input LED represents a video-only tie
- a flashing input LED represents an audio tie
- a flashing audio I/O LED represents audio that follows the video signal
- an active video LED is always lit

In audio-only or video-only I/O mode:

- A lit input LED represents a tie
- I/O LEDs are lit to show the signal type

NOTE *A flashing output LED represents a muted state.*

Selecting the switcher mode for output

Select an output (1 or 2). Press the Mode button until the Single and Seperate LEDs light. The flashing LED indicates the active mode. Make a selection between the Single and Seperate modes.

Single Switcher mode

Making a tie in Single switcher (one switcher with 12 inputs) mode — Select the output (output 1 or output 2). Select the desired input by pressing the associated input button. The selected input is routed to the output of its group. The outputs of the other groups are disconnected.

Separate switcher mode

Making a tie in Separate switcher (three groups with four inputs each) mode — Select the output (output 1 or output 2) for each group. Select the desired input in any (or all) of the three switcher groups (VGA, S-video, or Video) by pressing the associated input button. The inputs are routed to the output for each respective group. Observe that the LEDs (up to three) for the selected inputs light up.

Mute and volume control (output 1 only) — To adjust the volume, use the Audio Volume control knob. To mute Audio output 1, press the Mute button (the red LED will light to indicate that Audio is muted).

Front panel security lockout — This feature prevents use of any functions on the MPX 423 A. If a user presses any button during this state, the I/O button LEDs will flash to indicate its lockdown status. For detailed instructions on operating the Front Panel Security Lockout feature, refer to the MPX 423 A Matrix Switcher manual.

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